DOCKET NO.: CELL-0288/PA512 PATENT

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Daniel Christopher Brookings, et al.

Confirmation No.: 1007

**Application No.: 10/518,725** 

Group Art Unit: 1614

Filing Date: May 26, 2005

**Examiner: Not Yet Assigned** 

For: ARYLAMINE SUBSTITUTED BICYCLIC HETEROAROMATIC COMPOUNDS AS P38 KINASE INHIBITORS

DATE OF DEPOSIT:

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA,

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Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

	the above identified application as set forth in § 1.491, before the mailing date
	of a first Office Action on the merits of the above-identified application, or
	before the mailing date of a first Office Action after the filing of request for
	continued examination under § 1.114, no additional fee is required.
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	before an action that otherwise closes prosecution in the application, therefore:
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$\boxtimes$	Copies of reference numbers 1 - 31 listed on the attached Form PTO-1449 are
	enclosed herewith.
	Copies of reference numbers - on the attached Form PTO 1449
	are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).
	Copies of references - are not being submitted because
	they were previously cited by or submitted to the U.S. Patent and
	Trademark Office in patent application number , filed for
	which a claim for priority under 35 U.S.C. § 120 has been made in the
	instant application.

DOCE	KET NO.: CELL-0288/PA512	- 3 -	PATENT	
	The relevance of those listed references which are not in the English language is as follows:			
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Form PTO	-1449 Modified	Docket No. CELL-0288/PA512	Application No. 10/518,725	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Daniel Christopher Brookings, et al.		
	U.S. Department of Commerce Patent and Trademark Office		Group 1614	
		Confirmation No. 1007		
OTHE	R DOCUMENTS (Includ	ling Author, Title, Date	, Pertinent Pages, Etc.)	
1	inflammatory cytokines, Elsevier Science, 2001, 3	" Process in Medicinal C 38, 1-60	target for the inhibition of pro- Chem., King, F.D., et al. (Eds.),	
2				
3	characterization of the kinase dependence of stress responses of enzyme-deficient embryonic stem cells," J. Exp. Med., 2000, 191(5), 859-869			
4				
5			n phenylboronic acids and cupric	
6	<ul> <li>6 Cohen, P., "The search for physiological substrates of MAP and SAP kinases in mammalian cells," <i>Trends Cell Biol.</i>, 1997, 7, 353-361</li> <li>7 Dinarello, C.A.J., "An update on human interleukin-1: from molecular biology to clinical relevance," <i>J. of Clinical Immunology</i>, 1985, 5(5), 287-297</li> </ul>			
7				
8	Doza, Y.N., et al., "Active phosphorylation of Thruchemically stressed KB	vation of the MAP kinase 180 and Tyr-182 and bot cells," <i>FEBS Letts.</i> , <b>1995</b>	e homologue RK requires the h residues are phosphorylated in 5, 364, 223-228	
9	kinase isoforms by the N 1998, 273(3), 1741-1748	MAP kinase kinases MKF 3	togen-activated protein (MAP) K3 and MKK6," J. of Biol. Chem.,	
10	1		e suppressive anti-inflammatory ced kinase," <i>Pharmacol. Comm.</i> ,	
<b>EXAMINER</b>		DATE CO	NSIDERED	

EXAMINER		DATE CO	DNSIDERED	
2	Lee, J.C., et al., "Inhibition of monocyte IL-1 production by the anti-inflammatory compound, SK&F 86002," <i>Int. J. Immunopharm.</i> , <b>1988</b> , 10(7), 835-843			
	with arylboronic acid," <i>Tet. Letts.</i> , <b>2001</b> , <i>42</i> , 3415-3418  19 Lee, J.C., et al., "Bicyclic imidazoles as a novel class of cytokine biosynthesis inhibitors," <i>Annals N.Y. Acad. Sci.</i> , <b>1993</b> , <i>696</i> , 149-170			
1:				
1:	biosynthesis," <i>Nature Cell Biol.</i> , <b>1999</b> , <i>1</i> , 94-97 <b>18</b> Lam, P.Y.S., et al., "Copper-catalyzed general C-N and C-O bond cross-coupling			
1	17 Kotlyarov, A., et al., "MAPKAP kinase 2 is essential for LPS-induced TNF-α			
	2169-2172			
10	16 Konno, K., et al., "Improved procedures for preparation of 2-pyridones and 2 hydroxymethylpyridines from pyridine N-oxides," <i>Heterocycles</i> , 1986, 24(8)			
4.	17920-17926			
	activated protein kinase			
1:	Academic Press, San Diego, 1991, Vol. 200, 3-39  15 Jiang, Y., et al., "Characterization of the structure and function of a new mitogen-			
14	<u> </u>			
	Heterocyclic Chem., 198	Heterocyclic Chem., 1981, 18, 339-342 (English summary on page 342)		
1:				
	ethers from aryl halides and triflates: scope and mechanism," Angew. Chem. In. Ed. Engl., 1998, 37, 2046-2067			
12			synthesis of arylamines and aryl	
	4246-4252	•		
1:			activation of p38 mitogen-activated l lineages," <i>J. of Immun.</i> , 1999, 162,	
	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
		Confirmation No. 1007		
		May 26, 2005	1014	
	U.S. Department of Commerce Patent and Trademark Office		Group 1614	
		Filing Date		
	sheets if necessary)	Applicant Daniel Christopher Brookings, et al.		
	List of Patent and Publications Cited by Applicant			
Tint of Date		CELL-0288/PA312	10/518,725	
Form PTO-1449 Modified		Docket No. CELL-0288/PA512	Application No.	

Form PTO-144	19 Modified	Docket No CELL-02		Application No. 10/518,725
Cited by Ap	List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Applicant Daniel Christopher Brookings, et al.	
· ~			e 005	Group 1614
			ion No.	·
OTHER DO	OCUMENTS (Includ	ing Author	, Title, Date, I	Pertinent Pages, Etc.)
cyte	okine biosynthesis," A	lature (Lon	don), 1994, 372	
hale	Luker, T.J., et al., "Palladium catalysed amination of electron deficient halothiophenes," <i>Tetrah. Letts.</i> , <b>2000</b> , <i>41</i> , 7731-7735			35
like	McDonnell, P.C., et al., "Localization of the human stress responsive MAP kinase-like CSAIDs binding protein (CSBP) gene to chromosome 6p21.3/21.2," <i>Genomics</i> , 1995, 29, 301-302			a stress responsive MAP kinase- nosome 6p21.3/21.2," Genomics,
pre				
cyte				
rhir	26 Subauste, M.C., et al., "Infection of a human respiratory epithelial cell line with rhinovirus," <i>J. Clin. Invest.</i> , <b>1995</b> , <i>96</i> , 549-557			
acti				
acti	Teran, L.M., et al., "Role of nasal interleukin-8 in neutrophil recruitment and activation in children with virus-induced asthma," Am. J. Respir. Crit. Care Med., 1997, 155, 1362-1366			
sec Dis				
	olf, J.P., et al., "Scope I bromides," J. Org. C			BINAP-catalyzed amination of
EXAMINER			DATE CONS	SIDERED

Form 1	Form PTO-1449 Modified  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office		Docket No. CELL-0288/PA512	Application No. 10/518,725	
C			Applicant Daniel Christopher Brookings, et al.		
			Filing Date May 26, 2005	Group 1614	
			Confirmation No. 1007		
O'	<b>THE</b> I	R DOCUMENTS (Incl	uding Author, Title, Da	te, Pertinent Pages, Etc.)	
	31	Zhu, Z., et al., "Rhinov Invest., 1996, 97(2), 42		eukin-6 in vivo and in vitro," J. Clin.	
	·				
EXAMINER			DATE C	ONSIDERED	